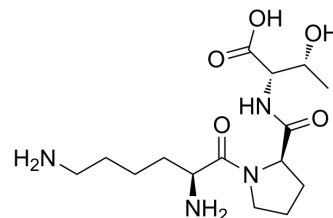


Lys-D-Pro-Thr

Cat. No.:	HY-125083
CAS No.:	117027-34-6
Molecular Formula:	C ₁₅ H ₂₈ N ₄ O ₅
Molecular Weight:	344.41
Sequence:	Lys-{d-Pro}-Thr
Sequence Shortening:	L-{d-Pro}-T
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Storage:	Sealed storage, away from moisture
	Powder -80°C 2 years
	-20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (290.35 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.9035 mL	14.5176 mL	29.0352 mL
		5 mM	0.5807 mL	2.9035 mL	5.8070 mL
10 mM		0.2904 mL	1.4518 mL	2.9035 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.5 mg/mL (7.26 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.26 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (7.26 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Lys-D-Pro-Thr, an IL-1beta analogue, is a potent IL-1 inhibitor. Lys-D-Pro-Thr inhibits the protective effects of IL-1 beta ^{[1][2]} .
IC ₅₀ & Target	IL-1
In Vivo	Lys-D-Pro-Thr (10 mg/kg; IP; for 4 days) inhibits the protective effect of fMLP (HY-P0224) and that of MMK-1 (HY-P1117)

against Etoposide (HY-13629)-induced alopecia^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	11-d-old rats ^[1]
Dosage:	10 mg/kg
Administration:	IP; for 4 days
Result:	Inhibited the protective effect of fMLP and that of MMK-1 against Etoposide-induced alopecia. It alone did not induce alopecia.

REFERENCES

[1]. Takahiro Tsuruki, et al. Mechanism of the protective effect of intraperitoneally administered agonists for formyl peptide receptors against chemotherapy-induced alopecia. *Biosci Biotechnol Biochem.* 2007 May;71(5):1198-202.

[2]. Y Uehara, et al. Central administration of Lys-D-Pro-Thr, an interleukin-1 beta 193-195 analogue, stimulates feeding in rats. *Neuropeptides.* 1991 May;19(1):9-11.

Caution: Product has not been fully validated for medical applications. For research use only.

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